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# *Cooperative* ECONOMIC INSECT REPORT

*Issued by*

PLANT PEST CONTROL DIVISION

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

# **AGRICULTURAL RESEARCH SERVICE**

## **PLANT PEST CONTROL DIVISION**

### **SURVEY AND DETECTION OPERATIONS**

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearinghouse and does not assume responsibility for accuracy of the material.

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Survey and Detection Operations  
Plant Pest Control Division  
Agricultural Research Service  
United States Department of Agriculture  
Washington 25, D. C.

## COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

GRASSHOPPERS continue to cause damage in areas of Oregon, Utah, Colorado, Ohio and North Carolina. FALL ARMYWORM of concern in eastern two-thirds and along south central coast in Texas, serious in most of Louisiana and damaging in south central and southwest Missouri. (p. 1069). THREE-CORNERED ALFALFA HOPPER injuring alfalfa in Arizona and counts 5-8 per sweep in Brazos and Burleson Counties, Texas. (p. 1070). Honeydew from SPOTTED ALFALFA APHID a problem in many alfalfa fields in Santa Fe County, New Mexico. ALFALFA WEEVIL damaging alfalfa in Floyd County, Virginia; larvae ranged 13-128 per 100 sweeps in Garrett, Washington and Worcester Counties, Maryland; larvae moderate in alfalfafield in Washington County, Rhode Island; and adults averaged 27 per 100 sweeps in 4 Wyoming counties. EUROPEAN CORN BORER infestations heavy in several corn fields in Bibb County, Georgia, and SOUTHWESTERN CORN BORER heavily damaged grain sorghum in Brazos County, Texas. (p. 1071).

WALNUT HUSK FLY caused considerable concern to residents in several northern California locations. (p. 1072).

POTATO PSYLLID caused reduction of 25-50 percent of early potato crop in Davis County, Utah, and tomato crop reduced 10-15 percent in same State. MEXICAN BEAN BEETLE abundant and caused severe damage to lima beans in Preble County, Ohio. IMPORTED CABBAGEWORM and CABBAGE LOOPER damaging to crucifers in 3 Oregon counties. (p. 1073).

ENGELMANN SPRUCE BEETLE damaging spruce on 20,000 acres in Carson National Forest, New Mexico. (p. 1075). BAGWORM heavy throughout Hueston Woods State Park in Preble County, Ohio, and widespread on eastern redcedar in areas of Virginia. (pp. 1075-1076). FALL WEBWORM caused heavy damage to cherries, plums and other trees in western Pennsylvania and to various hardwoods in Virginia. (p. 1076). TWIG PRUNERS caused heavy pruning of persimmon limbs and damaged shade trees in south central and southwest Missouri. (p. 1077).

DETECTION

New state records for Delaware were CARROT WEEVIL (p. 1074) and Leucaspis japonica (p. 1077). FACE FLY found for first time in Franklin County, Virginia. (p. 1079).

SPECIAL REPORTS

Status of the Screw-worm in the Southwest. (p. 1078).

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Reports in this issue are for week ending September 28, unless otherwise indicated.

WEATHER BUREAU 30-DAY OUTLOOK

OCTOBER 1962

The Weather Bureau's 30-day outlook for October calls for temperatures to average below seasonal normals over the eastern half of the Nation as well as over the Southern Plains, with the exception of New England and Florida where near normal temperatures are predicted. Over the remainder of the country, above normal is predicted, except West Coast States and the Far Southwest where near to below normal values are in prospect. Precipitation is expected to exceed normal over the southern half of the Nation eastward from the Continental Divide and also over the Northeast. Above normal rainfall is also indicated in the Pacific Northwest. Subnormal amounts are predicted for the Northern Plains and the Far Southwest. In unspecified areas, near normal precipitation is in prospect.

Weather forecast given here is based on the official 30-day "Resume and Outlook" published twice a month by the Weather Bureau. You can subscribe through Superintendent of Documents, Washington 25, D. C. Price \$4.80 a year, \$2.40 a half year.

WEATHER OF THE WEEK ENDING OCTOBER 1

Unseasonably cool weather continued in the eastern half of the Nation for the second consecutive week. In some middle and northern sections, freezing and frost occurred and temperatures for the week averaged 10° or more below normal. In Georgia on the 29th, Atlanta recorded 49°, the lowest temperature on record there so early in the autumn season, and Blairsville reported 31° with frost. These early freezes and frosts have caused little or no crop damage.

In the western half of the Nation, temperatures for the week averaged well above normal in the Pacific Northwest and northern Rockies and about normal or slightly below in southern sections and the extreme western Great Plains. Slightly below-normal temperatures in the southern Rockies were due mostly to cloudy days.

Precipitation in the course of the week fell in nearly all sections of the country and generally exceeded 0.50 inch east of the Rocky Mountains. A slow moving front brought moderate to heavy rains to the South and East during the first 3 days of the week, and a storm which developed along the front on the Gulf coast produced additional heavy rains in the East as it moved up the Atlantic coast on the 27th and 28th. Weekly totals in North Carolina ranged from 0.50 to 2.00 inches with some 4.00- to 6.00-inch totals along the coast; in Virginia, 0.75 to 2.00 inches; in Maryland, Delaware, New Jersey, Pennsylvania and New York State 1.00 to 3.00 inches, and in New England 2.00 to 3.50 inches along the coast and in some southern sections, diminishing to about 0.50 inch in the extreme north. Soil moisture was improved in many sections. Widespread light to heavy rains in Texas were also very beneficial there. The storm responsible for heavy rains in the East on the 27th and 28th was also accompanied by high winds in southern New England. Trees and utility lines were damaged, and giant waves along the shore sank pleasure craft and damaged shore installations.

In the Far West, precipitation was spotty. Heavy rains in Arizona caused flooding which damaged crops, and more rain further relieved dry conditions in western Colorado. Snowfall was reported in the higher mountains of Colorado and above 6,000 or 7,000 feet in Idaho. Little or no precipitation fell in most of California and Nevada. (Summary supplied by U. S. Weather Bureau).

## CEREAL AND FORAGE INSECTS

GRASSHOPPERS - OREGON - Camnula pellucida heavy in Swan Lake and upper Klamath marsh area of Klamath County during mid-September. Bee fly parasites abundant. (Larson). UTAH - Grasshoppers continue numerous locally in central and northern areas. Generally, however, population decreased markedly during recent weeks. (Knowlton). Adult survey showed 576,500 acres of cropland and 437,500 acres of rangeland highly populated enough to constitute a threat of economic infestations during 1963. Extensive outbreaks occurred in 1962 and are threatened in 1963 in San Juan, Millard, Juab, Box Elder, Salt Lake, Cache, Uintah and Sanpete Counties, in particular. (Thornley, Knowlton). COLORADO - Grasshoppers continue damaging to margins of winter wheat in eastern area. Some controls applied. (Colo. Ins. Det. Com.). NEW MEXICO - Averaged about 5 nymphs per 25 sweeps in alfalfa near Pojoaque and Nambe, Santa Fe County. (N. M. Coop. Rpt.). NEBRASKA - Fence row populations of Melanoplus femurrubrum and M. differentialis ranged 6-8 per square yard in Dodge and Saunders Counties. (Roselle, Bergman). NORTH DAKOTA - Adult survey showed infestation down over 1961 on cropland. Few scattered, threatening infestations present in southwestern one-fourth of State. Species involved in cropland were M. bivittatus, M. sanguinipes, M. femurrubrum, M. packardii and Camnula pellucida. On rangeland, species involved were Ageneotettix deorum, Aulocara ellioti, M. sanguinipes and C. pellucida. However, the light infestation is considerably larger than in 1961. No counts higher than threatening on rangeland. (Wilson). WISCONSIN - Grasshoppers, principally M. femurrubrum, continue numerous in most fields and reported damaging to soybeans in Trempealeau County, strawberry plantings in Chippewa County and seed crops in Kewaunee County. Severe feeding reported on sandy soil areas in Waupaca County. (Wis. Ins. Sur.). OHIO - M. differentialis responsible for severe damage to field corn near Oxford, Butler County. Many acres contained plants which were completely defoliated. (Lyon). NORTH CAROLINA - Undetermined species reported to have destroyed 30 percent of soybean foliage in 5-acre field in Bladen County. (C. D. Bowers).

CORN EARWORM (Heliothis zea) - DELAWARE - Rather abundant on late-planted soybeans and corn. (Connell). MARYLAND - During mid to late September, outbreak numbers occurred in many late soybean fields on lower Eastern Shore. Pod damage heaviest in eastern Wicomico County; several fields required treatments. (U. Md., Ent. Dept.). VIRGINIA - Only an occasional larvae found in soybean and peanut fields in limited areas surveyed in Nansemond and Southampton Counties. (Rowell). Light, local infestation of peanuts noted in Isle of Wight County. (Tarpley, Stith, Sept. 21). SOUTH CAROLINA - Decreasing on soybeans in most areas. (Nettles et al., Sept. 24). LOUISIANA - Increasing on soybeans; controls recommended. (Cancienne, Dry, Sept. 19). OKLAHOMA - Light to moderate in most alfalfa in north central area (4-8 per 10 sweeps) and in grain sorghum in Marshall County, south central. (Okla. Coop. Sur.). TEXAS - Light on alfalfa in College Station-Bryan area, Brazos County. (Randolph). NEW MEXICO - Extremely heavy in sweet corn fields; often averaged 3-4 larvae per ear of corn in many areas of State. (N. M. Coop. Rpt.).

FALL ARMYWORM (Laphygma frugiperda) - TEXAS - Light on alfalfa and a small field of sweet corn 100 percent infested in Bryan-College Station area, Brazos County. (Randolph). Causing concern on small grains, pastures and lawns in most of eastern two-thirds of State and along coast to Beeville, south central area. (Newton). LOUISIANA - A serious problem in most of State. (Cancienne, Dry, Sept. 19). OKLAHOMA - Light in alfalfa in north central area (2-4 per 10 sweeps) and in Johnston County, south central (6 per 10 sweeps). Activity also observed on grasses along roadsides, field margins, pastures and lawns in scattered areas across State. (Okla. Coop. Sur.). MISSOURI - Larvae damaging fall-seeded alfalfa and small grains in south central and southwest areas. Counts in small grains ranged 0-6 larvae per square foot. Larval size ranged from third instar to full grown. (Munson, Thomas, Wood).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - Causing injury to alfalfa in all lower elevation areas. (Ariz. Coop. Sur.). UTAH - Adults numerous on some Skull Valley, Tooele County, alfalfa. Larvae had been numerous in these areas. (Knowlton, Biggs). OKLAHOMA - Light, 1-2 per 10 sweeps, in some alfalfa in north

central area. (Okla. Coop. Sur.). NEBRASKA - Moderate populations of larvae and adults present in legumes in eastern area. (Bergman).

GREEN CLOVERWORM (Plathypena scabra) - TEXAS - Light on alfalfa in College Station-Bryan area, Brazos County. (Randolph). OKLAHOMA - Light to moderate in alfalfa in north central area; up to 25-30 per 10 sweeps. (Okla. Coop. Sur.). MARYLAND - Full-grown larvae light on soybeans in lower Eastern Shore. (U. Md., Ent. Dept.).

YELLOW-STRIPED ARMYWORM (Prodenia ornithogalli) - MISSOURI - Light in alfalfa in south central and southwest areas; larvae ranged 0-4 per sweep, but averaged 1 per sweep in most fields. (Munson, Thomas, Wood). TEXAS - Light on alfalfa in Bryan-College Station area, Brazos County. (Randolph).

VELVETBEAN CATERPILLAR (Anticarsia gemmatalis) - GEORGIA - Light to moderate on soybeans in middle and southern areas. (Johnson, Sept. 20). SOUTH CAROLINA - Present on soybeans in number of coastal counties. Decreasing in Horry, Darlington and Clarendon Counties; increasing in Aiken County. (Nettles et al., Sept. 24).

BEE T ARMYWORM (Spodoptera exigua) - TEXAS - Larvae 20-35 per sweep in alfalfa in Brazos and Burleson Counties. (Randolph).

CABBAGE LOOPER (Trichoplusia ni) - GEORGIA - Light on soybeans in middle and southern areas. (Johnson, Sept. 20).

SALT-MARSH CATERPILLAR (Estigmene acrea) - TEXAS - Caused some damage to practically all soybean leaves in localized area of Burleson County; averaged 1 larva per 10 leaves. (Randolph).

STINK BUGS - NORTH CAROLINA - Undetermined species per 50 feet of row of soybeans averaged 5.5 adults and 4 nymphs in Johnston, Wilson and Wayne Counties, 3.5 adults and 2.5 nymphs in Pitt County and 5 adults and 6 nymphs in Martin County. (Mount). SOUTH CAROLINA - Present on soybeans in several counties. (Nettles et al., Sept. 24). ARKANSAS - Stink bugs, primarily Acrosternum hilare, built up on some soybean fields during past 2 weeks. High counts in only a small percent of total fields infested. Fields with high counts generally located near, or adjacent to, timber on ditch banks where stink bugs developed early in year on alternate hosts. Fifty percent of stink bugs found on soybeans during week ending September 29 nymphs; few masses of empty egg shells found. Also, A. hilare outnumbered Euschistus servus about 7 or 8 to 1. Highest counts 44 per 30 feet of row in field in Jefferson County, southeast. Soybeans advanced far enough that yields will not be affected; however, discoloration of beans may result from feeding. (Ark. Ins. Sur.). TEXAS - Nezara viridula nymphs becoming very numerous on soybeans in Burleson County. (Randolph).

TARNISHED PLANT BUG (Lygus lineolaris) - MARYLAND - Ranged 21-119 per 100 sweeps on alfalfa in 5 counties over State. (Sept. 18, 19, 20). (U. Md., Ent. Dept.).

LYGUS BUGS (Lygus spp.) - ARIZONA - Continue active in alfalfa throughout State. (Ariz. Coop. Sur.).

THREE-CORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - Present and causing some injury to alfalfa statewide. (Ariz. Coop. Sur.). TEXAS - Counts 5-8 per sweep in Brazos and Burleson Counties. (Randolph). OKLAHOMA - Light in scattered portions of north central and south central areas. (Okla. Coop. Sur.). ARKANSAS - Increased on soybeans, but no economic damage expected. (Ark. Ins. Sur.).

PEA APHID (Macrosiphum pisi) - OREGON - Controls necessary on 2,000 acres of alfalfa during August in Klamath County. (Vertrees). NEW MEXICO - Remains generally light throughout State except for fields in Roosevelt County where populations appear to be increasing. (N. M. Coop. Rpt.). NEBRASKA - Averaged

250 per 10 sweeps in Dodge and Saunders County alfalfa. (Roselle, Bergman). SOUTH DAKOTA - Populations very high; counts on alfalfa 150-800 per 10 sweeps in east central area. (Hintz). RHODE ISLAND - Common in alfalfafield in Kingston, Washington County. (Mathewson).

SPOTTED ALFALFA APHID (Therioaphis maculata) - NEW MEXICO - Moderate to heavy in Santa Fe County alfalfa; all stages present. Honeydew a problem in many fields. (N. M. Coop. Rpt.). UTAH - More common on Iron County alfalfa than during midsummer. (Knowlton). OKLAHOMA - Generally light in alfalfa in north central area. Light in Johnston County, south central. (Okla. Coop. Sur.). SOUTH DAKOTA - Counts in Miner County alfalfa ranged 3-10 per 100 sweeps. (Walstrom, Hintz). Found in Sanborn County, wingless forms 3 per 100 sweeps, on September 24. (Walstrom).

ALFALFA WEEVIL (Hypera postica) - RHODE ISLAND - Moderate numbers of larvae and occasional pupa swept from alfalfa in field in Kingston, Washington County. (Mathewson). MARYLAND - Larvae ranged 13-128 per 100 sweeps in alfalfa in Garrett, Washington and Worcester Counties. (Sept. 18, 19). (U. Md., Ent. Dept.). VIRGINIA - Considerable damage present in several alfalfa fields checked in Floyd County; larvae rather plentiful. (Talley). WYOMING - Adults averaged 27 per 100 sweeps in alfalfa in Park, Big Horn, Washakie and Hot Springs Counties. (Fullerton).

LESSER CLOVER LEAF WEEVIL (Hypera nigrirostris) - MARYLAND - Adults totaled 76 per 100 sweeps in field of red clover in Worcester County, September 18. (U. Md., Ent. Dept.).

MEXICAN BEAN BEETLE (Epilachna varivestis) - GEORGIA - Light to heavy on soybeans in middle and southern areas. (Johnson, Sept. 20). SOUTH CAROLINA - Decreasing on soybeans in all areas. (Nettles et al., Sept. 24).

BEAN LEAF BEETLE (Cerotoma trifurcata) - NEBRASKA - Adults averaged 4 per 10 sweeps in Dodge and Saunders County alfalfa. (Roselle, Bergman). MARYLAND - Light to moderate on soybeans on lower Eastern Shore. (U. Md., Ent. Dept.).

BLISTER BEETLES (Epicauta spp.) - NEW MEXICO - Minor problem in Santa Fe, Sandoval, Rio Arriba and Bernalillo County alfalfa. (N. M. Coop. Rpt.).

A CUCUMBER BEETLE (Diabrotica undecimpunctata tenella) - NEW MEXICO - Averaged 3-5 per 25 sweeps in Santa Fe County alfalfa. (N. M. Coop. Rpt.).

GREEN JUNE BEETLE (Cotinis nitida) - MISSOURI - Larvae reported damaging fall-seeded alfalfa in few southwest area fields. Damage resulted from larvae keeping soil loose and was not result of feeding injury. (Munson, Thomas, Wood).

EUROPEAN CORN BORER (Ostrinia nubilalis) - GEORGIA - Heavy infestations in several fields of corn in Bibb County. (Turner, Blassingame, Sept. 17). SOUTH DAKOTA - Populations considerably lower in central and east central regions than in south-east and south central areas. Preliminary checks show range of 20-580 borers per 100 plants in central and east central areas. (Hintz).

SOUTHWESTERN CORN BORER (Zeadiatraea grandiosella) - TEXAS - Grain sorghum in Brazos County heavily damaged and considerable lodging occurring. (Randolph). ARKANSAS - Three full generations appeared in southern area this year and 2 full and a partial third generation appeared in northern area. (Ark. Ins. Sur.).

SUGARCANE BORER (Diatraea saccharalis) - TEXAS - Grain sorghum in one area of Brazos County heavily damaged. One or more larvae per plant present. (Randolph).

SORGHUM WEBWORM (Celama sorghiella) - OKLAHOMA - High populations severely damaged late experimental plantings of grain sorghum in Muskogee County, east central area. Other activity continues in Mayes and Marshall Counties. (Okla. Coop. Sur.). TEXAS - One to 5 percent of grain sorghum in heads in Brazos County infested, with 1-6 larvae per head. (Randolph).

CORN LEAF APHID (Rhopalosiphum maidis) - TEXAS - Very numerous in Brazos County corn and grain sorghum. Parasitized aphids quite noticeable. (Randolph). OKLAHOMA - Lower than at same time in 1961. Only light infestations noted on Johnson grass and grain sorghum in north central area. (Okla. Coop. Sur.). OHIO - Heavy populations of nymphs and few alates found under corn leaf sheaths in Hamilton, Butler, Preble, Warren and Clinton Counties; 400-500 nymphs in masses between corn leaf and stalk. Many parasitized. (Davidson, Lyon).

CHINCH BUG (Blissus leucopterus) - OHIO - Fourth and fifth instars quite abundant on corn plants between corn leaf and stalk in Clark, Madison and Greene Counties; 200-250 found at one location. (Lyon). TEXAS - Adults numerous and few nymphs present on 10-20 percent of grain sorghum plants in Brazos County. (Randolph).

A SPITTLEBUG (Prosapia bicincta) - GEORGIA - Light to heavy infestations on Bermuda grass in middle and southern areas. (Johnson, Sept. 19).

SORGHUM MIDGE (Contarinia sorghicola) - TEXAS - Light infestations of larvae in seed noted in most heads of grain sorghum developed beyond pollen-shed in Brazos and Burleson Counties. (Randolph).

NORTHERN CORN ROOTWORM (Diabrotica longicornis) - WISCONSIN - "Goosenecking" of corn reported from Trempealeau County. Although adults observed as far north as St. Croix County, little, if any, lodging apparent in northwestern and western areas. (Wis. Ins. Sur.).

JAPANESE BEETLE (Popillia japonica) - OHIO - Larval counts low in soil samples taken in Wayne, Tuscarawas, Jefferson, Mahoning, Columbiana, Stark, Washington, Monroe and Morgan Counties; averaged 2 per square foot. (Polivka).

A CERAMBYCID - GEORGIA - Larvae, probably Derobrachus brevicollis, infesting 200 acres of Bahia grass in Miller County. D. brevicollis now known to be present in Seminole, Dougherty and probably Miller Counties. (Johnson, Lee, Sept. 20).

#### FRUIT INSECTS

APPLE MAGGOT (Rhagoletis pomonella) - RHODE ISLAND - Larvae ranged 5-6 per apple from home yard trees in Warwick, Kent County. (Mathewson). WISCONSIN - Caused noticeable injury in untreated orchards in Chippewa and Waupaca Counties. (Wis. Ins. Sur.).

CODLING MOTH (Carpocapsa pomonella) - OHIO - Infestations low in plots in Lorain County; averaged 2 percent. (Cutright). WISCONSIN - Fresh entries noted in Gays Mills area, Crawford County, on September 14. (Wis. Ins. Sur.).

SPIDER MITES - UTAH - Various species, including Tetranychus mcdanieli, seriously discolored foliage of some orchards in Ogden-North Ogden area, Weber County. (Knowlton).

EUROPEAN RED MITE (Panonychus ulmi) - OHIO - Late season populations ranged from 0 per leaf on check plots to 9 per leaf on treated plots in Lorain County. (Cutright).

PACIFIC SPIDER MITE (Tetranychus pacificus) - CALIFORNIA - Medium in walnut orchard in West Sacramento, Yolo County. (Cal. Coop. Rpt.).

WALNUT HUSK FLY (Rhagoletis completa) - CALIFORNIA - Building up in walnut fruit in yard plantings; caused considerable concern to residents in several locations in northern part of State. (Cal. Coop. Rpt.).

DARKLING BEETLES (Blapstinus spp.) - ARIZONA - Caused injury to young, wrapped citrus trees in Maricopa County; adults under paper and feeding on bark. (Ariz. Coop. Sur.).

GRAPE BERRY MOTH (Paralobesia viteana) - OHIO - Damage heavy on grape berries in untreated home garden in Preble County; 0.9 of all berries in clusters shriveled and unfit. (Lyon).

GRAPE ROOTWORM (Fidia viticida) - OHIO - Damage light to moderate on grape leaves in untreated home garden in Preble County. (Lyon).

WESTERN GRAPE LEAF SKELETONIZER (Harrisina brillians) - NEVADA - New infestation found outside of eradication area in Las Vegas, Clark County; control efforts exceptionally good in eradication area. (Nichols, Zoller).

LEAFHOPPERS - UTAH - Severely discolored a few grapevines at Ogden, Weber County, and at Brigham City, Box Elder County. (Knowlton).

FALL WEBWORM (Hyphantria cunea) - FLORIDA - Heavy on cultivated persimmon at Eureka, Marion County. (Adkins, Sept. 17).

BLACK-HEADED FIREWORM (Rhopobota naevana) - OREGON - Caused partial loss of cranberry crop in Bandon area, Coos County, in fields not using timely controls. (Goeden).

#### TRUCK CROP INSECTS

POTATO PSYLLID (Paratrioza cockerelli) - UTAH - Caused reduction of 25-50 percent of early potato crop in Davis County. Later-planted potatoes suffered much less damage. Tomato crop reduced 10-15 percent due to attack; most severe on early planted tomatoes. (Knowlton, Stokes).

A BLISTER BEETLE (Meloe sp.) - RHODE ISLAND - Moderate on tomato plants in Narragansett and Kingston, Washington County. (Mathewson, Kerr).

MEXICAN BEAN BEETLE (Epilachna varivestis) - OHIO - Second through fourth instars and adults abundant on lima beans in Preble County; damage severe. (Lyon).

STINK BUGS - ARKANSAS - Various species observed on southern peas in several locations in State. (Ark. Ins. Sur.).

GREENHOUSE WHITEFLY (Trialeurodes vaporariorum) - CALIFORNIA - Heavy on beans in Chowchilla, Madera County. (Cal. Coop. Rpt.).

IMPORTED CABBAGEWORM (Pieris rapae) - OHIO - Damage moderate to heavy on 35 cabbageheads in home garden in Preble County; ranged 3-4 larvae per head. (Lyon). OREGON - Became a more serious threat in crucifer plantings in Multnomah, Washington and Marion Counties since September 17. Ovipositing general, but control measures reduced threat considerably. (Hanna).

CABBAGE LOOPER (Trichoplusia ni) - NEW MEXICO - Rigid control program necessary due to large number of eggs and larvae in Dona Ana County lettuce fields. (N. M. Coop. Rpt.). OREGON - Increased sharply in crucifer-growing areas of Marion, Washington and Multnomah Counties during week of September 16. General egg laying in broccoli and cauliflower fields continues; control measures considerably reducing threat. (Hanna). MARYLAND - Cocoons on tomatoes grown in Baltimore County caused a removal problem at cannery in Baltimore. (U. Md., Ent. Dept.).

BEET ARMYWORM (Spodoptera exigua) - CALIFORNIA - Larvae heavy on sugar beets in Thermal, Riverside County. (Cal. Coop. Rpt.).

SQUASH BUG (Anasa tristis) - RHODE ISLAND - Not found this year although deliberately sought in a number of fields. (Mathewson).

WESTERN SPOTTED CUCUMBER BEETLE (Diabrotica undecimpunctata undecimpunctata) - OREGON - Larvae noted feeding on cantaloups in Benton County, September 27. Injured part of fruit touching soil. (Morrison).

CARROT WEEVIL (Listronotus oregonensis) - DELAWARE - Collected for the first time in State by D. MacCreary in September, at Milton, Sussex County. Det. by P. Burbutis. Larvae infested carrots locally. (Burbutis).

RED-HUMPED CATERPILLAR (Schizura concinna) - UTAH - Infested raspberries at Springville, Utah County. (Knowlton).

STRAWBERRY LEAF ROLLER (Ancylis comptana fragariae) - MINNESOTA - Noted on ever-bearing strawberries in Twin City area. (Minn. Ins. Rpt., Sept. 21).

CYCLAMEN MITE (Steneotarsonemus pallidus) - MINNESOTA - Damaged everbearing strawberries in Twin City area. (Minn. Ins. Rpt., Sept. 21).

#### COTTON INSECTS

BOLLWORMS (Heliothis spp., et al.) - OKLAHOMA - Activity continues in cotton-producing areas, but controls terminated. (Okla. Coop. Sur.). ARIZONA - Continues to cause injury to late-planted cotton where controls not practiced. (Ariz. Coop. Sur.). CALIFORNIA - Continues abundant throughout valley areas in Kern County. Beneficial insects effective in keeping populations in check. Some larger larvae damaging maturing bolls. Late-maturing fields with succulent growth may yet be damaged and yield reduced. (T. Leigh, Ext. Ser.).

PINK BOLLWORM (Pectinophora gossypiella) - OKLAHOMA - Specimens taken from gins in Jefferson County lint cleaner inspections. (Okla. Coop. Sur.).

BEET ARMYWORM (Spodoptera exigua) - ARIZONA - Causing some injury to cotton in parts of Pinal County. (Ariz. Coop. Sur.).

SALT-MARSH CATERPILLAR (Estigmene acrea) - ARIZONA - Increasing on cotton in Central Valley areas. (Ariz. Coop. Sur.). CALIFORNIA - This species and Trichoplusia ni abundant in Murray, Kings County, and Devils Den, Kern County, areas. These may be more beneficial than detrimental in some cases by opening up the plants and allowing air circulation, thus reducing boll rot. (T. Leigh, Ext. Ser.).

BOLL WEEVIL (Anthonomus grandis) - OKLAHOMA - Activity continues in cotton-producing areas, but controls terminated. (Okla. Coop. Sur.).

LYGUS BUGS (Lygus spp.) - CALIFORNIA - Some damage occurring in late-maturing cotton fields in Shafter area, Kern County. (T. Leigh, Ext. Ser.).

A STINK BUG (Euschistus conspersus) - CALIFORNIA - Abundant in some cotton fields in Five Points area, Fresno County. Potentially a threat to larger bolls. (T. Leigh, Ext. Ser.).

SPIDER MITES - ARIZONA - Still need control in some cotton fields. (Ariz. Coop. Sur.).

FOREST, ORNAMENTAL AND SHADE TREE INSECTS

SOUTHERN PINE BEETLE (Dendroctonus frontalis) - TEXAS - The decline of spread reported in July continued in August. Only 53 new spots found in priority control zones from aerial detection flights. Activity ceased on some spots without control measures. The time is opportune to control all active infestations. (Texas For. Pest Comm., Aug. Rpt.). VIRGINIA - General flareup activity appeared during August as expected. In fact, epidemic conditions exist in local areas of Charlotte, Prince Edward, Cumberland and southern Fluvanna Counties. Aerial survey revealed occasional spots as large as 15 acres involving as many as 2,000 red-topped and green trees. Majority of spots comprise 1-2 acres of shortleaf or Virginia pine. Activity remains relatively low on Eastern Shore. (C. L. Morris).

BLACK TURPENTINE BEETLE (Dendroctonus terebrans) - TEXAS - Infestations reported to cause mortality of pines in Sabine, Trinity and Walker Counties. (Texas For. Pest Comm., Aug. Rpt.).

ROUNDHEADED PINE BEETLE (Dendroctonus convexifrons) - NEW MEXICO - Moderately heavy populations damaging pine on about 1,000 acres near Ruidoso in Lincoln National Forest. (N. M. Coop. Rpt.).

BLACK HILLS BEETLE (Dendroctonus ponderosae) - NEW MEXICO - Heavy populations killing stands of limber pine on about 2,000 acres in Mangano Mountains in Cibola National Forest. (N. M. Coop. Rpt.).

ENGELMANN SPRUCE BEETLE (Dendroctonus engelmanni) - NEW MEXICO - Damaging spruce stands in Carson National Forest on about 20,000 acres in Chama and Toas areas. (N. M. Coop. Rpt.).

PINE ENGRAVERS (Ips spp.) - TEXAS - Infestations reported throughout southern pine beetle epidemic area of scattered single trees and small groups. Most of mortality on drier sites and around lightning-struck pines. (Texas For. Pest Comm., Aug. Rpt.). VIRGINIA - Active on loblolly pine locally during August in Brunswick and Hanover Counties; noted on Virginia pine in 3 areas of Fluvanna County; increasing slightly in Farmville district; reported in several spots in Charlotte and Lunenburg Counties; and reported killing occasional pines in Caroline County. (C. L. Morris).

WHITE-PINE WEEVIL (Pissodes strobi) - VIRGINIA - Local damage noted during August in Culpeper, Roanoke, Augusta and Rockingham Counties. (C. L. Morris).

PALES WEEVIL (Hylobius pales) - VIRGINIA - Locally damaging in Carroll, Charlotte and Lunenburg Counties during August. (C. L. Morris).

SPRUCE BUDWORM (Choristoneura fumiferana) - NEW MEXICO - Area of around 700 acres outside of area treated this summer infested. Defoliating fir and Douglas-fir stands. (N. M. Coop. Rpt.).

PINE WEBWORM (Tetralopha robustella) - VIRGINIA - Noted on scattered Scotch pines in Henry County during August and small larvae became noticeable on August 23 on loblolly pine in Buckingham State Forest. (C. L. Morris).

NANTUCKET PINE TIP MOTH (Rhyacionia frustrana) - VIRGINIA - Activity widespread in loblolly and shortleaf pine plantations in all counties of Waverly district during August; noted in most loblolly pine plantations in Lunenburg County; infesting one percent of Scotch pine in Henry County and causing moderate damage to 3 loblolly pine plantations in Bedford and Campbell Counties; severe damage (2-6 inches tip kill) reported in 2 plantations in Accomack County and on 15 seedlings in area of Northampton County; reported active over remainder of Portsmouth district. (C. L. Morris).

BAGWORM (Thyridopteryx ephemeraeformis) - OHIO - Sporadic heavy infestations observed throughout Hueston Woods State Park in Preble County; 35-40 cases found

on one 20-foot evergreen tree. (Lyon). VIRGINIA - Widespread during August on eastern redcedar throughout most of Charlottesville and Portsmouth districts. (C. L. Morris).

FALL WEBWORM (Hyphantria cunea) - OKLAHOMA - Activity continues on variety of trees over State. (Okla. Coop. Sur.). VIRGINIA - Defoliation widespread throughout Waverly district during August on persimmon and pecan; noticeable on various hardwoods in Greene, Madison, Albemarle, Nelson, Rappahannock and Fauquier Counties; evident on persimmon, gum and locust in most Farmville district counties; prominent on persimmon, blackgum, cherry and dogwood in Henry County; and large numbers evident on Eastern Shore. (C. L. Morris). PENNSYLVANIA - Caused very heavy damage, with complete defoliation of cherries, plums and other trees in western area. (Wolf, Udine).

VARIABLE OAK LEAF CATERPILLAR (Heterocampa manteo) - OKLAHOMA - Moderate populations noted damaging oaks in Stillwater area. (Okla. Coop. Sur.). VIRGINIA - Scattered throughout mainland counties of Portsmouth district during August. (C. L. Morris).

OAK SKELETONIZER (Bucculatrix ainsliella) - OHIO - Moderate to heavy damage to oak leaves observed in southwest. (Neiswander, Lyon).

UNICORN CATERPILLAR (Schizura unicornis) - OHIO - Larvae collected from a pin oak in Warren County; damage moderate with 50 percent of leaves defoliated. (Triplehorn, Lyon).

AMERICAN DAGGER MOTH (Acronicta americana) - NEVADA - Additional infestations found on boxelder in Reno, Washoe County. Several complaints received concerning rash which developed after handling larvae. (Bechtel).

CATALPA SPHINX (Ceratomia catalpae) - OHIO - Late second brood found on catalpas in Butler County; larvae one-fourth to one-half inch long. (Davidson, Lyon).

AN ASH PLANT BUG (Neoborus sp., probably pacificus) - NEVADA - Trace to light populations found on ash in Reno County. Det. by G. M. Buxton (Bechtel, Lukens, Ting).

BUFFALO TREEHOPPER (Stictocephala bupalus) - OHIO - Severely damaged silver maples near Lebanon, Warren County. Twig injury due to oviposition punctures. (Davidson, Lyon).

HACKBERRY-NIPPLE-GALL MAKER (Pachypsylla celtidismamma) - OHIO - Galls abundant on hackberry in southeast. (Triplehorn, Lyon).

PIGEON TREMEX (Tremex columba) - PENNSYLVANIA - Heavy adult and larval infestation of maple in Mercer County. (Gunther, Sept. 21).

A WALNUT HUSK FLY (Rhagoletis saavis) - OHIO - High numbers collected on sticky traps in Ashtabula, Wayne and Mahoning Counties on black walnut trees. Larvae abundant in walnut hulls. (Still).

SPIDER MITES - CALIFORNIA - Oligonychus platani and Eotetranychus willamettei severely damaging sycamores in Oroville, Butte County. (Cal. Coop. Rpt.).

SPRUCE NEEDLE MINER (Taniva albolineana) - MINNESOTA - Reported in several locations in nursery and ornamental plantings. (Minn. Ins. Rpt., Sept. 21).

RED-HEADED PINE SAWFLY (Neodiprion lecontei) - VIRGINIA - Larvae active during August in 2 loblolly pine plantations in Charlotte County. Defoliation of various planted pines by larvae lighter than expected this year in Charlottesville district. Activity reported on shortleaf, loblolly, Virginia and a single white pine in Fluvanna, Spotsylvania and in most other counties in the district, mainly on 1-2 trees each spot. Larvae active on Virginia, loblolly, pitch, Scotch pines

in Pittsylvania, Henry, Carroll, Bedford and Franklin Counties. All infestations small, involving 1-10 trees. Larvae noted on shortleaf and loblolly pines in plantation in Wise County; damage slight. Larvae caused extensive damage to 30 percent of a 3-year-old loblolly pine plantation in Caroline County. (C. L. Morris).

ELM LEAF BEETLE (Galerucella xanthomelaena) - ARIZONA - Causing injury in Maricopa and Pinal Counties where controls not used. (Ariz. Coop. Sur.).

TWIG PRUNERS - MISSOURI - Unidentified species causing heavy pruning of persimmon limbs in south central and southwest areas. Damage reported on hickory, elms and other shade trees. (Lenhardt, Munson, Thomas, Wood).

TWIG GIRDLER (Oncideres cingulata) - OKLAHOMA - First activity of season reported from Payne, Lincoln and Oklahoma Counties. (Okla. Coop. Sur.).

APHIDS - COLORADO - Several species feeding heavily on elm, willow, ash and chestnut trees and on various shrubs and other ornamentals. Honeydew flowing abundantly in Fort Collins area. (Colo. Ins. Det. Com.).

WALNUT SCALE (Aspidiotus juglansregiae) - CALIFORNIA - Medium infestation on locust trees in El Cajon, San Diego County. (Cal. Coop. Rpt.).

A TERRAPIN SCALE (Lecanium sp.) - MISSOURI - Heavy infestation reported on magnolia in nursery in east central area. (Lenhardt).

A SCALE INSECT (Neosteingelia texana) - TEXAS - Found infesting bark of devitalized pecan trees in Panola and Freestone Counties. Det. by McDaniel. (Croix, Shaw).

JUNIPER SCALE (Diaspis carueli) - PENNSYLVANIA - Infestations of juniper much increased over 1961 in Erie County. (Wolf).

PINE NEEDLE SCALE (Phenacaspis pinifoliae) - MISSOURI - Light on white pine in 2 nurseries in east central area. (Lenhardt, Munson, Thomas, Wood). MINNESOTA - Noted on spruce. (Minn. Ins. Rpt.).

A JAPANESE ARMORED SCALE (Leucaspis japonica) - DELAWARE - Rather abundant on maple in one area of Sussex County; first published State record. Collected September 21, 1962, at Laurel. Det. by D. F. Bray. (Burbutis).

EUONYMUS SCALE (Unaspis euonymi) - MARYLAND - Moderate on pachysandra at Baltimore, September 20. (U. Md., Ent. Dept.).

CAMPHOR SCALE (Pseudaonidia duplex) - FLORIDA - Few to moderate infestations on sasanqua camellia rootstock at Winter Haven, Polk County, on September 12 (Brown, English, Fuller, Hasley, Henderson, Howell) and on common and sasanqua camellias at Macclenny, Baker County, on September 20 (Collins).

TEA SCALE (Fiorinia theae) - FLORIDA - Moderate to severe on common camellia at Winter Haven, Polk County, on September 6 and 7 (Brown, Custead, English, Fuller, Hasley, Howell, McMillan) and one report from Longwood, Seminole County, on September 10 (Youtsey).

FLORIDA RED SCALE (Chrysomphalus aonidium) - FLORIDA - Moderately to severely infesting common camellia at Winter Haven, Polk County, on September 6. (Hasley, Howell).

FLORIDA WAX SCALE (Ceroplastes floridensis) - FLORIDA - Moderately infesting 5,000 calamondin trees at Opa Locka, Dade County, on September 11. (McFarlin, Hickman).

BARNACLE SCALE (Ceroplastes cirripediformis) - FLORIDA - Moderately to severely infesting Duranta repens at Lakeland, Polk County, on September 13. (Brown, Custead, English, Fuller, Hasley, McMillan).

A WAX SCALE (*Ceroplastes* sp.) - NORTH CAROLINA - Infesting number of ornamentals in Hertford County. Det. by R. L. Robertson. (Mount).

GREENHOUSE WHITEFLY (*Trialeurodes vaporariorum*) - OHIO - Light on chrysanthemums in nursery in Butler County. Populations low during past summer. (Lyon).

A LEAFHOPPER (*Graphocephala coccinea*) - PENNSYLVANIA - Causing damage to marigolds in Philadelphia; a problem in gardens. (Cole).

A PLUME MOTH (*Platyptilia pica*) - CALIFORNIA - Light population occurring on geranium flowers in Carlsbad, San Diego County. (Cal. Coop. Rpt.).

A NOTODONTID (*Schizura ipomoeae*) - OKLAHOMA - Defoliating roses in Stillwater area, north central. (Okla. Coop. Sur.).

NORTHERN CORN ROOTWORM (*Diabrotica longicornis*) - SOUTH DAKOTA - Adults noted feeding on sunflower heads in garden in Brookings County. (Spawn).

GRASSHOPPERS - COLORADO - Leaving dry fields and attacking grass and flowering plants in Fort Collins area; species mostly *Melanoplus* spp. (Colo. Ins. Det. Com.).

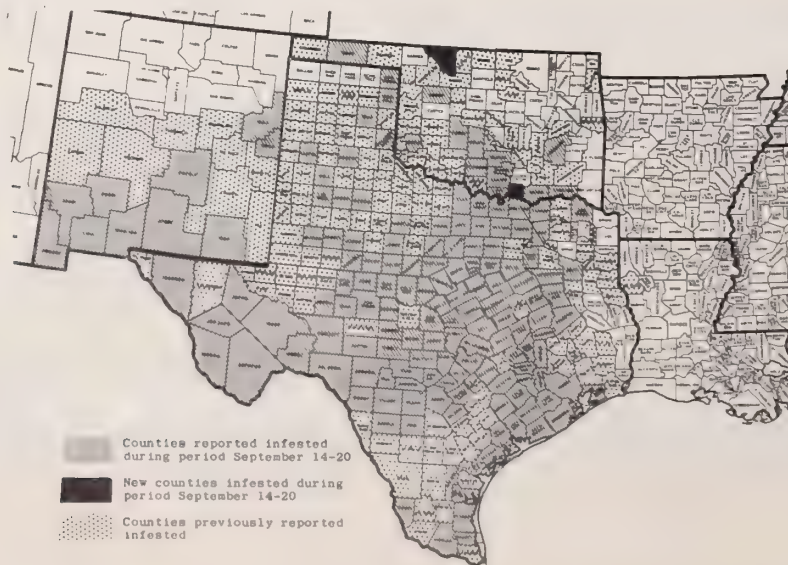
TWO-SPOTTED SPIDER MITE (*Tetranychus telarius*) - RHODE ISLAND - Heavy on euonymus in large nursery in Middletown, Newport County. Owner estimates 10,000 plants suffered almost complete leaf abscission. Probably this species of spider mite caused severe leaf dessication to summersweet clethra (*Clethra alnifolia*) on property in Tiverton, Newport County; only eggs and exuviae seen. (Mathewson).

NORTH CAROLINA - Heavily infesting azaleas in Lee County as of September 7. (J. F. Greene).

#### INSECTS AFFECTING MAN AND ANIMALS

##### STATUS OF THE SCREW-WORM (*Cochliomyia hominivorax*) IN THE SOUTHWEST

During the period September 14-20, a total of 64,409,050 sterile flies was released over an area of 63,000 square miles in Texas, with 7,000 square miles covered in average overwintering area of New Mexico. Release rate was 800 sterile flies per square mile over the general area with additional flies being released in areas favorable to screw-worm populations. A total of 1,101 screw-worm cases was reported during this period. New counties reported infested include Marshall and Woods, Oklahoma. (Anim. Dis. Erad. Div.).



MOSQUITOES - UTAH - Moderate annoyance continues in parts of Cache County. (Knowlton). OKLAHOMA - Moderate numbers of larvae and adults of Psorophora spp. present in north central areas; adults particularly annoying in alfalfa fields in Perkins area, Payne County. (Okla. Coop. Sur.). MINNESOTA - Some high counts of Culex and Culiseta larvae still being found in Twin City area. Larval Aedes populations very low. General frost occurred on September 20; adult counts very low. Larval control operations completed for season. (Minn. Ins. Rpt., Sept. 21). WISCONSIN - Although mosquitoes not abundant, biting is pernicious and appears to be more numerous. (Wis. Ins. Sur.).

HOUSE FLY (Musca domestica) - UTAH - Numerous about some campgrounds in Blacksmith Fork and Logan Canyons, Cache County. (Knowlton). NEBRASKA - Cool temperatures caused migration into homes. (Bergman). OKLAHOMA - Populations approximately half of last week but continue annoying around homes and other buildings in many areas of State. (Okla. Coop. Sur.). WISCONSIN - Heavy in Waupaca County; although populations low in most other areas, they appear particularly annoying. (Wis. Ins. Sur.).

FACE FLY (Musca autumnalis) - VIRGINIA - Noted for the first time in Franklin County on September 12; annoying humans and cattle on September 20 (Tucker, Rowell). WISCONSIN - Continues heavy, particularly in Waupaca, Chippewa and Winnebago Counties. (Wis. Ins. Sur.).

BLACK FLIES - UTAH - Annoying campers and hunters in parts of Logan Canyon. (Knowlton).

HORN FLY (Haematobia irritans) - OKLAHOMA - Continues range of 250-750 per head on cows and up to 1,200 per head on bulls in north central area; similar counts observed in Coal County. Activity continues across State. (Okla. Coop. Sur.).

AMERICAN DAGGER MOTH (Acronicta americana) - NEVADA - Several complaints noted concerning rash which developed after handling larvae in Reno, Washoe County. (Bechtel).

VESPIDES - UTAH - Yellow jackets and other wasps caused annoyance in some office buildings, schoolrooms, homes and in canyon campgrounds in central and northern parts of State. (Knowlton).

BROWN DOG TICK (Rhipicephalus sanguineus) - NEBRASKA - Moderate at Offutt Air Force Base, Omaha, Douglas County. (Bergman). ARIZONA - Great numbers prevalent in Maricopa and Pinal Counties. (Ariz. Coop. Sur.).

TICKS - TEXAS - Unspecified species becoming troublesome in residential areas of Waller County. (Weaver).

FLEAS - OKLAHOMA - Ctenocephalides felis and C. canis continue to cause concern in Payne and Cherokee Counties. (Okla. Coop. Sur.).

#### STORED-PRODUCT INSECTS

SAW-TOOTHED GRAIN BEETLE (Oryzaephilus surinamensis) - OREGON - Heavy in stored food and cereal products in a State institution September 27. (Larson). WYOMING - Adults present in 90 percent of granaries inspected in Park, Big Horn and Washakie Counties; ranged very light to moderate. (Fullerton). NORTH DAKOTA - Infested grain storage in Bismark, Burleigh County. (N. D. Ins. Sur.). OKLAHOMA - Light in farm-stored grain in Stillwater area, Payne County. (Okla. Coop. Sur.).

CONFUSED FLOUR BEETLE (Tribolium confusum) - OKLAHOMA - Light in farm-stored grain in Stillwater area, Payne County. (Okla. Coop. Sur.). WYOMING - Adults active in 48 percent of granaries inspected in Park, Big Horn and Washakie Counties; infestations very light. (Fullerton).

RED FLOUR BEETLE (Tribolium castaneum) - WYOMING - Adults active in 65 percent of granaries inspected in Park, Big Horn and Washakie Counties; infestations light. (Fullerton).

CADELLE (Tenebroides mauritanicus) - WYOMING - Adults active in 48 percent of granaries inspected in Park, Big Horn and Washakie Counties; infestations light. (Fullerton).

LESSER MEALWORM (Alphitobius diaperinus) - VIRGINIA - Large numbers noted in feed hoppers and other places in poultry house in Cumberland County. (Tarpley, Seay, Sept. 27).

MEAL MOTH (Pyralis farinalis) - WYOMING - Larvae found in 5 percent of granaries inspected in Park, Big Horn and Washakie Counties. (Fullerton).

INDIAN-MEAL MOTH (Plodia interpunctella) - OKLAHOMA - Light in farm-stored grain in Stillwater area, Payne County. (Okla. Coop. Sur.).

#### HOUSEHOLD AND STRUCTURAL INSECTS

BOXELDER BUG (Leptocoris trivittatus) - NORTH CAROLINA - Large numbers became a nuisance in home in Rowan County. (Mulder).

ELM LEAF BEETLE (Galerucella xanthomelaena) - RHODE ISLAND - Numerous adults entering homes in Cowesett area, Kent County. (Hannah).

SAW-TOOTHED GRAIN BEETLE (Oryzaephilus surinamensis) - UTAH - Infested flour and other cereal products in home in Logan, Cache County. (Knowlton).

RED FLOUR BEETLE (Tribolium castaneum) - NORTH DAKOTA - Infested several homes in Cass County area. (N. D. Ins. Sur.).

DRUGSTORE BEETLE (Stegobium paniceum) - COLORADO - Noted in kitchen cupboards of home in Carbondale, Garfield County. (Colo. Ins. Det. Com.).

A ROUNDHEADED WOOD BORER (Arhopalus productus) - CALIFORNIA - This species and an unspecified wasp emerged from walls of home in Palo Alto, Santa Clara County. (Cal. Coop. Rpt.).

POWDER-POST BEETLES (Lyctus spp.) - WISCONSIN - Caused concern to homeowners in Kewaunee and Winnebago Counties. (Wis. Ins. Sur.).

HORNTAILS (Sirex spp.) - CALIFORNIA - Emergence of S. areolatus medium in interior of house in Pleasant Hill, Contra Costa County. S. cyaneus noted in new home in Watsonville, Santa Cruz County. (Cal. Coop. Rpt.).

#### BENEFICIAL INSECTS

GREEN LACEWINGS (Chrysopa spp.) - SOUTH DAKOTA - Chrysopa sp. ranged 1-2 adults per plant in corn fields. (Hintz). OKLAHOMA - Chrysopa sp. ranged light to moderate in alfalfa checked in north central area. (Okla. Coop. Sur.). TEXAS - Adult C. oculata very numerous in soybean field heavily infested with southern green stink bug (Nezara viridula) and salt-marsh caterpillar (Estigmene acrea). (Randolph).

A GORSE WEEVIL (Apion ulicis) - OREGON - Apparently established at Sea Lion Caves site in Lane County. In Whiskey Run site north of Bandon, Coos County, weevils spread east to U. S. Highway 101, a distance of several miles. Populations high at latter site. (Goeden).

LADY BEETLES - SOUTH DAKOTA - Counts continue at 3-8 per corn plant in fields. (Hintz). OKLAHOMA - Several species ranged light to moderate in alfalfa checked in north central area. (Okla. Coop. Sur.). RHODE ISLAND - Mainly Hippodamia tredecimpunctata and H. parenthesis common in alfalfa sweepings. (Mathewson, Sept. 25).

A BRACONID - OHIO - Several larvae of Protoparce sp. in garden found heavily infested with cocoons of unspecified species. Most larvae with 90-100 cocoons. (Lyon).

DAMSEL BUGS - OKLAHOMA - Nabis sp. ranged light to moderate in alfalfa checked in north central area. (Okla. Coop. Sur.). RHODE ISLAND - N. ferus numerous in alfalfa sweepings in Kingston, Washington County. (Mathewson).

FLOWER BUGS - OKLAHOMA - Orius insidiosus ranged light to moderate in alfalfa checked in north central area. (Okla. Coop. Sur.). RHODE ISLAND - Orius sp. common on sweepings from alfalfa and noted in turf in Kingston, Washington County. (Mathewson).

#### MISCELLANEOUS INSECTS

SLUGS - NORTH DAKOTA - Reports of occurrence in gardens continue in Cass County area. (Schulz). WISCONSIN - Caused considerable concern to gardeners throughout State before heavy frost of September 19. (Wis. Ins. Sur.).

JAPANESE BEETLE (Popillia japonica) - NORTH DAKOTA - Results of trapping during 1962 season negative. (N. D. Ins. Sur.).

ASIATIC OAK WEEVIL (Cyrtopistomus castaneus) - VIRGINIA - Collected in Charlotte County. (Tarpley, Haskins).

PUSS CATERPILLAR (Megalopyge opercularis) - VIRGINIA - Noted at Rustburg, Campbell County. (Tarpley, Carson). NORTH CAROLINA - Collected in Forsyth and Gaston Counties; det. by R. L. Robertson. (Mount).

YELLOW JACKETS (Vespula spp.) - OHIO - Adults collected in Mahoning County, feeding on watermelon fruits; very numerous on edible portions of watermelons. (Lyon, Sept. 21).

ANTS - RHODE ISLAND - Widespread, spectacular emergence of alates in diverse sections of Providence and Kent Counties occurred uniformly between 5:30 and 6:00 p.m. Only specimens received were males of a small, camponotine form. (D'Andrea, King, Mathewson).

A CARPENTER ANT (Camponotus sp.) - COLORADO - Swarming noted at Colorado Springs, El Paso County; Denver, Denver County; and Fort Collins, Larimer County. (Colo. Ins. Det. Com.).

LIGHT TRAP COLLECTIONS

|                                     | Agrot.<br>ips. | Pseud.<br>unip. | Laphyg.<br>frug. | Prod.<br>ornith. | Ostrinia<br>nubilalis | Protoparce<br>sexta quin. | Helio.<br>zea | Perid.<br>saucia |    |
|-------------------------------------|----------------|-----------------|------------------|------------------|-----------------------|---------------------------|---------------|------------------|----|
| COLORADO                            |                |                 |                  |                  |                       |                           |               |                  |    |
| Rocky Ford 9/21-28                  |                | 24              |                  |                  |                       | 1                         | 112           |                  |    |
| GEORGIA                             |                |                 |                  |                  |                       |                           |               |                  |    |
| Tifton 9/13-19                      |                |                 |                  |                  |                       | 13                        | 95            |                  |    |
| ILLINOIS (County)                   |                |                 |                  |                  |                       |                           |               |                  |    |
| Champaign 9/21-27                   | 3              | 6               |                  | 1                |                       |                           | 62            | 7                |    |
| INDIANA (Counties)                  |                |                 |                  |                  |                       |                           |               |                  |    |
| Jasper 9/17-24                      | 4              | 2               |                  |                  | 10                    |                           | 10            | 1                |    |
| La Porte 9/19-27                    | 1              | 5               |                  | 2                |                       |                           | 10            | 1                |    |
| Lawrence 9/16-18                    |                | 1               |                  |                  |                       |                           | 4             |                  |    |
| Tippecanoe 9/20-27                  | 1              | 2               |                  | 2                |                       |                           | 6             | 1                |    |
| Vanderburgh 9/20-22                 |                | 2               |                  |                  |                       |                           | 4             |                  |    |
| NEBRASKA                            |                |                 |                  |                  |                       |                           |               |                  |    |
| North Platte 9/6-12                 | 26             | 112             | 12               | 13               | 2                     | 1                         | 1             | 54               | 17 |
| North Platte 9/13-19                | 54             | 191             | 3                | 6                | 30                    |                           | 2             | 107              | 46 |
| North Platte 9/20-26                | 223            | 879             | 53               | 19               | 15                    |                           |               | 105              | 61 |
| McCook 9/12, 13                     | 9              | 15              | 6                | 2                | 6                     |                           |               | 3                | 11 |
| McCook 9/19                         | 20             | 20              | 12               | 4                | 25                    |                           |               | 9                | 9  |
| Scotts Bluff Expt.<br>Sta., 9/11-17 | 24             | 34              |                  |                  |                       |                           |               | 12               | 27 |
| Scotts Bluff Expt.<br>Sta., 9/18-24 | 15             | 44              |                  |                  |                       |                           |               | 27               | 25 |
| NORTH DAKOTA                        |                |                 |                  |                  |                       |                           |               |                  |    |
| Fargo 9/22-28                       | 3              | 32              |                  |                  |                       |                           |               |                  |    |
| TEXAS                               |                |                 |                  |                  |                       |                           |               |                  |    |
| *Brownsville 9/14-26                | 44             | 350             | 1,137            | 36               |                       | 36                        | 41            | 61               | 51 |
| Waco 9/22-28                        | 2              | 326             |                  | 50               |                       |                           |               | 301              | 52 |
| WISCONSIN                           |                |                 |                  |                  |                       |                           |               |                  |    |
| Mazomanie 9/18-24                   | 1              | 23              |                  |                  | 2                     |                           |               | 1                | 1  |
| Madison 9/18-24                     | 4              | 29              |                  |                  |                       |                           |               | 9                | 2  |
| Middleton 9/18-24                   | 5              | 10              |                  |                  |                       |                           |               | 5                | 3  |
| SOUTH CAROLINA                      |                |                 |                  |                  |                       |                           |               |                  |    |
| Charleston 9/24-30                  | 23             | 83              | 12               | 21               |                       | 3                         | 1             | 28               |    |

\*Six traps - Brownsville.

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